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(54) **Control system for automatic vehicle transmissions**

(57) An automatic transmission arrangement includes TMCU (9) for automatically shifting a transmission (3) according to a gear position change signal issued from a manual shift switch (29a). TMCU (9) also automatically disengages a clutch (2) when automatic shifting takes place, and automatically engages the clutch (2) when accelerator pedal depression (8) exceeds a predetermined value in a clutch disengaged

condition. TMCU (9) further decides a most appropriate gear in accordance with a current vehicle running condition, selects a higher one of the most appropriate gear and a predetermined start gear as a target gear, and shifts the transmission (3) to the target gear regardless of the gear position change signal from the manual shift switch (29a) when the accelerator pedal depression (8) exceeds a prescribed amount in the clutch disengaged condition, and then engages the clutch (2).

**FIG. 2**

